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https://github.com/docker/labs/blob/master/beginner/chapters/alpine.md

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```
faizan@DESKTOP-S27V5UT: ~
drwxr-xr-x 12 root root 4096 Dec 7 09:43 var
faizan@DESKTOP-S27V5UT:~$ docker run alpine echo "hello from alpine"
hello from alpine
faizan@DESKTOP-S27V5UT:~$ docker run alpine /bin/sh
faizan@DESKTOP-S27V5UT:~$ docker run -it alpine /bin/sh
/ # ls -l
total 56
drwxr-xr-x 2 root root 4096 Dec 7 09:43 bin
drwxr-xr-x 5 root root 360 Jan 12 02:03 dev
drwxr-xr-x 1 root root 4096 Jan 12 02:03 etc
drwxr-xr-x 2 root root 4096 Dec 7 09:43 home
drwxr-xr-x 7 root root 4096 Dec 7 09:43 lib
drwxr-xr-x 5 root root 4096 Dec 7 09:43 media
drwxr-xr-x 2 root root 4096 Dec 7 09:43 mnt
drwxr-xr-x 2 root root 4096 Dec 7 09:43 opt
drwxr-xr-x 269 root root 0 Jan 12 02:03 proc
drwxr-xr-x 1 root root 4096 Jan 12 02:03 root
drwxr-xr-x 2 root root 4096 Dec 7 09:43 run
drwxr-xr-x 2 root root 4096 Dec 7 09:43 sbin
drwxr-xr-x 2 root root 4096 Dec 7 09:43 srv
drwxr-xr-x 11 root root 0 Jan 12 02:03 sys
drwxrwxrwt 2 root root 4096 Dec 7 09:43 tmp
drwxr-xr-x 7 root root 4096 Dec 7 09:43 usr
drwxr-xr-x 12 root root 4096 Dec 7 09:43 var
/ # uname -a
Linux b8f5d5827817 5.15.133.1-microsoft-standard-WSL2 #1 SMP Thu Oct 5 21:02:42 UTC 2023 x86_64 Linux
/ #
```

minutes ago. You're probably wondering if there is a way to run more than just one command in a container. Let's try that now:

Type here to search

9:11 pm 11/01/2024

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```
faizan@DESKTOP-S27V5UT: ~
Linux b8f5d5827817 5.15.133.1-microsoft-standard-WSL2 #1 SMP Thu Oct 5 21:02:42 UTC 2023 x86_64 Linux
/ # exit
faizan@DESKTOP-S27V5UT:~$ docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED    STATUS    PORTS    NAMES
faizan@DESKTOP-S27V5UT:~$
```

What you see above is a list of all containers that you ran. Notice that the STATUS column shows that these containers exited a few

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Win... 9:14 pm 11/01/2024

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faizan@DESKTOP-S27V5UT: ~
Linux b8f5d5827817 5.15.133.1-microsoft-standard-WSL2 #1 SMP Thu Oct 5 21:02:42 UTC 2023 x86_64 Linux
# exit
faizan@DESKTOP-S27V5UT:~$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
faizan@DESKTOP-S27V5UT:~$ docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED      STATUS      PORTS      NAMES
b8f5d5827817   alpine    "/bin/sh"   11 minutes ago   Exited (0)   2 minutes ago   lucid_shami
552f53fdec44   alpine    "/bin/sh"   17 minutes ago   Exited (0)   17 minutes ago   festive_coh
1ccc315effea   alpine    "echo 'hello from al..." 18 minutes ago   Exited (0)   18 minutes ago   jolly_kilby
bbf8805dc067   alpine    "ls -l"     33 minutes ago   Exited (0)   33 minutes ago   keen_varaha
mihira        24c5f534e746   hello-world "/hello"     44 hours ago     Exited (0)   44 hours ago   charming_ed
lison         7b8adcd43019   hello-world "/hello"     44 hours ago     Exited (0)   44 hours ago   confident_p
erlman
```

Running the `run` command with the `-it` flags attaches us to an interactive tty in the container. Now you can run as many

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Preview Code Blame 498 lines (358 loc) · 24.7 KB

```
faizan@DESKTOP-S27V5UT: ~
faizan@DESKTOP-S27V5UT:~$ sudo docker run -d dockersamples/static-site
[sudo] password for faizan:
sudo: docker: command not found
faizan@DESKTOP-S27V5UT:~$ docker run -d dockersamples/static-site

The command 'docker' could not be found in this WSL 2 distro.
We recommend to activate the WSL integration in Docker Desktop settings.
For details about using Docker Desktop with WSL 2, visit:
https://docs.docker.com/go/ws12/

faizan@DESKTOP-S27V5UT:~$ sudo docker run -d dockersamples/static-site
sudo: docker: command not found
faizan@DESKTOP-S27V5UT:~$ docker run -d dockersamples/static-site
Unable to find image 'dockersamples/static-site:latest' locally
latest: Pulling from dockersamples/static-site
fdd5d7827f33: Pull complete
a3ed95cae02: Pull complete
716f7a5f3082: Pull complete
7b10f03a0309: Pull complete
a9f3ab7e9c30: Pull complete
Digest: sha256:daa686c61d7d239b7977e72157997489db49f316b0b9af3909d9f10fd28b2dec
Status: Downloaded newer image for dockersamples/static-site:latest
df3c7cb515222054457aadcf797863003ef9604b8a9bf219df1ff3438e9d144dc
faizan@DESKTOP-S27V5UT:~$
```

Let's run the command with some new flags to publish ports and pass your name to the container to customize the message displayed. We'll use the `docker run` again to run the container in detached mode.

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```
faizan@DESKTOP-S27V5UT:~$ sudo docker run -d dockersamples/static-site
sudo: docker: command not found
faizan@DESKTOP-S27V5UT:~$ docker run -d dockersamples/static-site
Unable to find image 'dockersamples/static-site:latest' locally
latest: Pulling from dockersamples/static-site
fdd5d7827f33: Pull complete
a3ed95caeb02: Pull complete
716f7a5f3082: Pull complete
7b10f03a0309: Pull complete
aff3ab7e9c39: Pull complete
Digest: sha256:daa686c61d7d239b7977e72157997489db49f316b9b9af3909d9f10fd28b2dec
Status: Downloaded newer image for dockersamples/static-site:latest
df3c7cb51522054457aadcf97863003ef9604b8a9bf219df1ff3438e9d144dc
faizan@DESKTOP-S27V5UT:~$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS        NAMES
df3c7cb51522   dockersamples/static-site          "/bin/sh -c 'cd /usr..." 4 minutes ago  Up 4 minutes  80/tcp, 443/tcp  lucid_bardeen
faizan@DESKTOP-S27V5UT:~$
```

Note: A cool feature is that you do not need to specify the entire container ID. You can just specify a few starting characters.

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```
faizan@DESKTOP-S27V5UT:~$ sudo docker run -d dockersamples/static-site
sudo: docker: command not found
faizan@DESKTOP-S27V5UT:~$ docker run -d dockersamples/static-site
Unable to find image 'dockersamples/static-site:latest' locally
latest: Pulling from dockersamples/static-site
fdd5d7827f33: Pull complete
a3ed95caeb02: Pull complete
716f7a5f3082: Pull complete
7b10f03a0309: Pull complete
aff3ab7e9c39: Pull complete
Digest: sha256:daa686c61d7d239b7977e72157997489db49f316b9b9af3909d9f10fd28b2dec
Status: Downloaded newer image for dockersamples/static-site:latest
df3c7cb51522054457aadcf97863003ef9604b8a9bf219df1ff3438e9d144dc
faizan@DESKTOP-S27V5UT:~$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS        NAMES
df3c7cb51522   dockersamples/static-site          "/bin/sh -c 'cd /usr..." 4 minutes ago  Up 4 minutes  80/tcp, 443/tcp  lucid_bardeen
faizan@DESKTOP-S27V5UT:~$ docker stop df3
df3
faizan@DESKTOP-S27V5UT:~$
```

-d will create a container with the process detached from our terminal

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```
faizan@DESKTOP-S27VSUT:~$ docker run -d dockersamples/static-site
Unable to find image 'dockersamples/static-site:latest' locally
latest: Pulling from dockersamples/static-site
fdd5d7827f33: Pull complete
a3ed95caeb02: Pull complete
716f7a5f3082: Pull complete
7b10f03a0309: Pull complete
aff3ab7e9c39: Pull complete
Digest: sha256:daa686c61d7d239b7977e72157997489db49f316b9b9af3909d9f10fd28b2dec
Status: Downloaded newer image for dockersamples/static-site:latest
df3c7cb515222054457aad797063803ef9604b8a9bf219df1ff3438e9d144dc
faizan@DESKTOP-S27VSUT:~$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS        NAMES
df3c7cb51522   dockersamples/static-site           "/bin/sh -c 'cd /usr..." 4 minutes ago  Up 4 minutes  80/tcp, 443/tcp  lucid_bardeen
faizan@DESKTOP-S27VSUT:~$ docker stop df3
df3
faizan@DESKTOP-S27VSUT:~$ docker rm df3
df3
faizan@DESKTOP-S27VSUT:~$
```

In the above command:

- d will create a container with the process detached from our terminal

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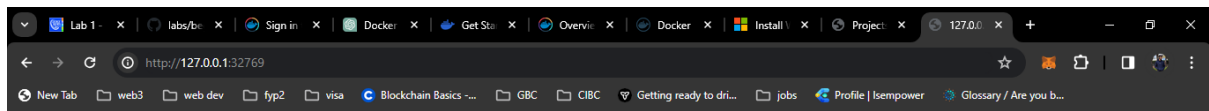
master

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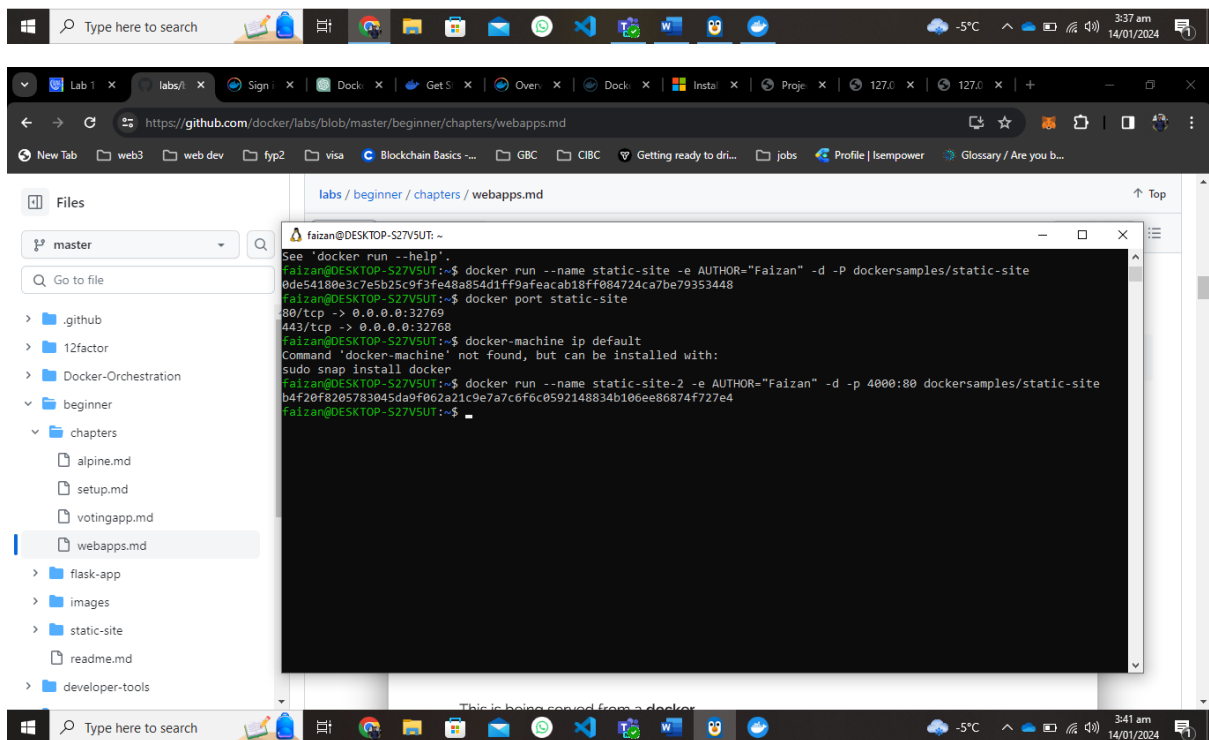
```
faizan@DESKTOP-S27VSUT:~$ docker run --name static-site -e AUTHOR="Faizan" -d -P dockersamples/static-site
Unable to find image 'dockersamples/static-site:latest' locally
docker: Error response from daemon: pull access denied for dockersamples/static-site, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.
See 'docker run --help'.
faizan@DESKTOP-S27VSUT:~$ docker run --name static-site -e AUTHOR="Faizan" -d -P dockersamples/static-site
0de54180e3c7e5b25c9f3fe48a854d1ff9afeacab18ff084724ca7be79353448
faizan@DESKTOP-S27VSUT:~$ docker port static-site
80/tcp -> 0.0.0.0:32769
443/tcp -> 0.0.0.0:32768
faizan@DESKTOP-S27VSUT:~$
```

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Hello Faizan!

This is being served from a **docker** container running Nginx.



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```
faizan@DESKTOP-S27V5UT: ~
b4f20f8205783045da9f062a21c9e7a7c6f6c0592148834b106ee86874f727e4
faizan@DESKTOP-S27V5UT:~$ docker stop static-site
faizan@DESKTOP-S27V5UT:~$ docker rm static-site
faizan@DESKTOP-S27V5UT:~$ docker rm -f static-site-2
faizan@DESKTOP-S27V5UT:~$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
faizan@DESKTOP-S27V5UT:~$
```

Type here to search

-5°C 3:44 am 14/01/2024

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```
faizan@DESKTOP-S27V5UT: ~
faizan@DESKTOP-S27V5UT:~$ docker images
REPOSITORY          TAG         IMAGE ID      CREATED      SIZE
alpine              latest      f8c20f0bbcb6 5 weeks ago  7.38MB
hello-world         latest     d2c94e258dcb 8 months ago 13.3kB
dockersamples/static-site latest     f589ccde7957 7 years ago 191MB
faizan@DESKTOP-S27V5UT:~$
```

Type here to search

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